

ABSTRACT OF THE DISCLOSURE

The invention relates to a fire retardant oriented strand board composite material comprising a mixture of wood strands, at least one organophosphorus ester, at least one polymeric binder resin, and a wax. In a process embodiment of the present invention this mixture is consolidated under heat and pressure to form an oriented strand board composite panel, whereby during consolidation the organophosphorus ester chemically interacts with the polymeric binder to provide cross-linking between the binder and the organophosphorus ester.

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